



PTO/SB08A (10-01)

Approved for use through 10/31/2002 OMB 0851-0031

U. S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

|  |   |    |   |                          |                        |
|--|---|----|---|--------------------------|------------------------|
| Substitute for form 1449A/PTO<br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br>(use as many sheets as necessary) |   |    |   | <b>Complete if Known</b> |                        |
|  |   |    |   | Application Number       | 09/804,570 Conf. #8885 |
|  |   |    |   | Filing Date              | March 12, 2001         |
|  |   |    |   | First Named Inventor     | Naoyuki Kouyama        |
|  |   |    |   | Art Unit                 | 2681                   |
|  |   |    |   | Examiner Name            | Not Yet Assigned       |
|  |   |    |   | Attorney Docket Number   | F1866.0058/P058        |
| Sheet  | 1 | of | 1 |                          |                        |

RECEIVED

OCT 22 2001

Technology Center

| U.S. PATENT DOCUMENTS |                          |  |                                |  |  |
|-----------------------|--------------------------|--|--------------------------------|--|--|
| Examiner<br>Initials* | Cite<br>No. <sup>1</sup> | Document Number                          | Publication Date<br>MM-DD-YYYY | Name of Patentee or Applicant<br>of Cited Document | Pages, Columns, Lines,<br>Where Relevant<br>Passages or Relevant<br>Figures Appear |
|                       |                          | Number-Kind Code <sup>2</sup> (if known) |                                |  |  |
|                       |                          |  |                                |  |  |

| FOREIGN PATENT DOCUMENTS |                          |   |                                |  |  |                |
|--------------------------|--------------------------|---|--------------------------------|--|--|----------------|
| Examiner<br>Initials*    | Cite<br>No. <sup>1</sup> | Foreign Patent Document   | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant<br>Passages or Relevant<br>Figures Appear | T <sup>2</sup> |
|                          |                          | Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known) |                                |  |  |                |
|                          | BA                       | JP-2001 211241 (Abstract)   | 10-08-2003                     | Sanyo Electric Co Ltd                              |  |                |
|                          | BB                       | GB 2 339 648 A  | 02-02-2000                     | NEC Corporation                                    |  |                |
|                          | BC                       | GB 2 328 347 A  | 02-17-1999                     | NEC Corporation                                    |  |                |
|                          | BD                       | GB 2 314 188 A  | 12-17-1997                     | NEC Corporation                                    |  |                |
|                          | BE                       | GB 2 277 851 A  | 11-09-1994                     | Motorola Inc                                       |  |                |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See attached Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the application number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

| OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS |                          |  |
|---|--------------------------|--|
| Examiner<br>Initials*                             | Cite<br>No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, city and/or country where published. |
|   |                          |  |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.



PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

U. S. Patent and Trademark Office: U. S. DEPARTMENT OF COMMERCE  
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

|   |   |    |                          |                  |  |
|---|---|----|--------------------------|------------------|--|
| Substitute for form 1448A/PTO   |   |    | <b>Complete if Known</b> |                  |  |
|   |   |    | Application Number       | 09/804,570       |  |
| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br>(use as many sheets as necessary) |   |    | Filing Date              | March 12, 2001   |  |
|   |   |    | First Named Inventor     | Naoyuki Kouyama  |  |
|   |   |    | Art Unit                 | N/A              |  |
|   |   |    | Examiner Name            | Not Yet Assigned |  |
|   |   |    | Attorney Docket Number   | F1866.0058/P058  |  |
| Sheet   | 1 | of | 1                        |                  |  |

| U.S. PATENT DOCUMENTS |                          |  |                                |  |  |
|-----------------------|--------------------------|--|--------------------------------|--|--|
| Examiner<br>Initials* | Cite<br>No. <sup>1</sup> | Document Number                          | Publication Date<br>MM-DD-YYYY | Name of Patentee or Applicant<br>of Cited Document | Pages, Columns, Lines,<br>Where Relevant<br>Passages or Relevant<br>Figures Appear |
|                       |                          | Number-Kind Code <sup>2</sup> (if known) |                                |  |  |
| AA                    | AA                       | 5,404,582                                | 04-04-1995                     | Demuro et al.                                      |  |

  

| FOREIGN PATENT DOCUMENTS |                          |   |                                |  |  |                |
|--------------------------|--------------------------|---|--------------------------------|--|--|----------------|
| Examiner<br>Initials*    | Cite<br>No. <sup>1</sup> | Foreign Patent Document   | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant<br>Passages or Relevant<br>Figures Appear | T <sup>3</sup> |
|                          |                          | Country Code <sup>2</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known) |                                |  |  |                |
|                          |                          |   |                                |  |  |                |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See attached Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the application number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

| OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS |                          |  |                |
|---|--------------------------|--|----------------|
| Examiner<br>Initials*                             | Cite<br>No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
|   |                          |  |                |
|   |                          |  |                |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

RECEIVED

APR 11 2003

Technology Center 2600

|  |                           |                         |
|--|---------------------------|-------------------------|
| <b>APPLICANT'S ART CITATION</b><br>(Use several sheets if necessary) | Application               | OFGS File No. P/1866-58 |
|  | Applicant Naoyuki KOUYAMA |                         |
|  | Filing Date               | Group Art Unit          |

**U.S. PATENT DOCUMENTS**

| Examiner Initial | Document Number | Date | Name | Class | Sub-class | Filing Date If Appropriate |
|------------------|-----------------|------|------|-------|-----------|----------------------------|
|                  |                 |      |      |       |           |                            |
|                  |                 |      |      |       |           |                            |
|                  |                 |      |      |       |           |                            |
|                  |                 |      |      |       |           |                            |
|                  |                 |      |      |       |           |                            |
|                  |                 |      |      |       |           |                            |
|                  |                 |      |      |       |           |                            |
|                  |                 |      |      |       |           |                            |
|                  |                 |      |      |       |           |                            |
|                  |                 |      |      |       |           |                            |
|                  |                 |      |      |       |           |                            |
|                  |                 |      |      |       |           |                            |
|                  |                 |      |      |       |           |                            |
|                  |                 |      |      |       |           |                            |

2000 U.S. PRO  
 09/894570  
 10/21/89

**FOREIGN PATENT DOCUMENTS**

|   | Document Number | Date     | Country | Class | Sub-class | Translation    |    |
|---|-----------------|----------|---------|-------|-----------|----------------|----|
|   |                 |          |         |       |           | Yes            | No |
| 1 | 8 5 4 5 4       | 03/30/89 | Japan   |       |           | X<br>(Partial) |    |
|   |                 |          |         |       |           |                |    |
|   |                 |          |         |       |           |                |    |
|   |                 |          |         |       |           |                |    |
|   |                 |          |         |       |           |                |    |
|   |                 |          |         |       |           |                |    |

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

|  |  |
|--|--|
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

|          |                          |
|----------|--------------------------|
| Examiner | Date Considered 10/14/89 |
|----------|--------------------------|

**EXAMINER:** Initial citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.



PTO/SB/08A (10-01)

Approved for use through 10/31/2002 OMB 0851-0031

U. S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1996, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

|   |   |    |   |                          |                 |
|---|---|----|---|--------------------------|-----------------|
| Substitute for form 1449A/PTO<br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br><i>(use as many sheets as necessary)</i> |   |    |   | <b>Complete if Known</b> |                 |
|   |   |    |   | Application Number       | 09/804,570      |
|   |   |    |   | Filing Date              | March 12, 2001  |
|   |   |    |   | First Named Inventor     | Naoyuki Kouyama |
|   |   |    |   | Art Unit                 | 2685            |
|   |   |    |   | Examiner Name            | Pablo N. Tran   |
| Sheet   | 1 | of | 1 | Attorney Docket Number   | F1866.0058/P058 |

| U.S. PATENT DOCUMENTS |                       |   |                                |  |  |
|-----------------------|-----------------------|---|--------------------------------|--|--|
| Examiner Initials*    | Cite No. <sup>1</sup> | Document Number<br>Number-Kind Code <sup>2</sup> (if known) | Publication Date<br>MM-DD-YYYY | Name of Patentee or Applicant<br>of Cited Document | Pages, Columns, Lines,<br>Where Relevant<br>Passages or Relevant<br>Figures Appear |
|                       |                       |   |                                |  |  |

| FOREIGN PATENT DOCUMENTS |                       |  |                                |  |  |                |
|--------------------------|-----------------------|--|--------------------------------|--|--|----------------|
| Examiner Initials*       | Cite No. <sup>1</sup> | Foreign Patent Document<br>Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known) | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant<br>Passages or Relevant<br>Figures Appear | T <sup>6</sup> |
| ✓                        | BA                    | JP 11-088483   | 03-30-1999                     | Matsushita Electric Ind Co Ltd                     |  |                |
| ✓                        | BB                    | JP 64-080145   | 03-27-1989                     | Matsushita Electric Ind Co Ltd                     |  |                |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See attached Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the application number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 18 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

| OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS |                       |  |                |
|---|-----------------------|--|----------------|
| Examiner Initials*                                | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
| ✓   | EA                    | Japanese Office Action issued August 30, 2004 (w/ English translation of relevant portion)   |                |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.



PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

U. S. Patent and Trademark Office: U. S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

|   |   |    |   |                          |                 |
|---|---|----|---|--------------------------|-----------------|
| <b>Substitute for form 1449A/PTO</b><br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br>(use as many sheets as necessary) |   |    |   | <b>Complete if Known</b> |                 |
|   |   |    |   | Application Number       | 09/804,570      |
|   |   |    |   | Filing Date              | March 12, 2001  |
|   |   |    |   | First Named Inventor     | Naoyuki Kouyama |
|   |   |    |   | Art Unit                 | 2685            |
|   |   |    |   | Examiner Name            | Pablo N. Tran   |
| Sheet   | 1 | of | 1 | Attorney Docket Number   | F1866.0058/P058 |

| U.S. PATENT DOCUMENTS |                          |  |                                |  |  |
|-----------------------|--------------------------|--|--------------------------------|--|--|
| Examiner<br>Initials* | Cite<br>No. <sup>1</sup> | Document Number                          | Publication Date<br>MM-DD-YYYY | Name of Patentee or Applicant<br>of Cited Document | Pages, Columns, Lines,<br>Where Relevant<br>Passages or Relevant<br>Figures Appear |
|                       |                          | Number-Kind Code <sup>2</sup> (if known) |                                |  |  |
|                       |                          |  |                                |  |  |

| FOREIGN PATENT DOCUMENTS |                          |   |                                |  |  |                |
|--------------------------|--------------------------|---|--------------------------------|--|--|----------------|
| Examiner<br>Initials*    | Cite<br>No. <sup>1</sup> | Foreign Patent Document   | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant<br>Passages or Relevant<br>Figures Appear | T <sup>6</sup> |
|                          |                          | Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known) |                                |  |  |                |
| PT                       | BA                       | JP -08-307488   | 11-22-1996                     | NEC Corp.  |  |                |
|                          |                          |   |                                |  |  |                |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See attached Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the application number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

| OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS |                          |  |                |
|---|--------------------------|--|----------------|
| Examiner<br>Initials*                             | Cite<br>No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
|   |                          |  |                |
| PT  | CA                       | Japanese Office Action issued August 22, 2005 (w/ English translation of relevant portion)   |                |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

017  
**RECEIVED**  
**CENTRAL FAX CENTER**  
**FEB 17 2006**

PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

U. S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

|   |   |    |   |                          |                 |
|---|---|----|---|--------------------------|-----------------|
| Substitute for form 1449A/PTO<br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br><i>(use as many sheets as necessary)</i> |   |    |   | <b>Complete if Known</b> |                 |
|   |   |    |   | Application Number       | 09/804,570      |
|   |   |    |   | Filing Date              | March 12, 2001  |
|   |   |    |   | First Named Inventor     | Naoyuki Kouyama |
|   |   |    |   | Art Unit                 | 2685            |
|   |   |    |   | Examiner Name            | Pablo N. Tran   |
|   |   |    |   | Attorney Docket Number   | F1866.0058/P058 |
| Sheet   | 1 | of | 1 |                          |                 |

| U.S. PATENT DOCUMENTS |                          |   |                                |  |  |
|-----------------------|--------------------------|---|--------------------------------|--|--|
| Examiner<br>Initials* | Cite<br>No. <sup>1</sup> | Document Number<br>Number-Kind Code <sup>2</sup> (if known) | Publication Date<br>MM-DD-YYYY | Name of Patentee or Applicant<br>of Cited Document | Pages, Columns, Lines,<br>Where Relevant<br>Passages or Relevant<br>Figures Appear |
|                       |                          |   |                                |  |  |

| FOREIGN PATENT DOCUMENTS |                          |  |                                |  |  |    |
|--------------------------|--------------------------|--|--------------------------------|--|--|----|
| Examiner<br>Initials*    | Cite<br>No. <sup>1</sup> | Foreign Patent Document<br>Country Code <sup>2</sup> -Number <sup>3</sup> -Kind Code <sup>2</sup> (if known) | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant<br>Passages or Relevant<br>Figures Appear | T* |
| PT                       | BA                       | JP -08-307488  | 11-22-1996                     | NEC Corp.  |  |    |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See attached Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the application number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

| OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS |                          |  |                |
|---|--------------------------|--|----------------|
| Examiner<br>Initials                              | Cite<br>No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
| PT  | CA                       | Japanese Office Action issued August 22, 2005 (w/ English translation of relevant portion)   |                |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

OPY